

TECHNICAL MANUAL
OPERATOR'S MANUAL
FOR
BODY ARMOR SET, INDIVIDUAL COUNTERMINE (BASIC)



*TM 10-8470-203-10, dated 1 November 2005 superseded
TM 10-8470-203-10 dated 1 October 2001, including all changes.

DISTRIBUTION STATEMENT A. Approved for public
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HEADQUARTERS, DEPARTMENT OF THE ARMY
1 NOVEMBER 2005

WARNING SUMMARY

This warning summary contains general safety warnings and hazardous materials warnings that must be understood and applied during operation and maintenance of this equipment. Failure to observe these precautions could result in serious injury or death to personnel.

WARNING

Ballistic cover and face shield add weight to the helmet. The assembly shifts the balance point forward. A high risk of injury to the neck may be expected when the soldier wearing the helmet, helmet cover, and face shield is subjected to external forces or accelerations such as falls, jumping from heights, vehicular movement over rough terrain, or direct impact to the helmet.

WARNING

Use of the BASIC with MOPP gear increases the possibility of heat illness.

WARNING

Ensure the fragmentation protective insert is not folded over inside the vest cover back half. Correct positioning is required to provide maximum available protection.

WARNING

Be sure to evaluate the fit of the overboots when worn with alternate military footwear before beginning a mission.

WARNING

The overboot increases the height of your heel and sole. Use caution when walking to avoid tripping or twisting your ankle.

WARNING

For first aid treatments, refer to FM 4-25.11.

WARNING

Use of Foot Protection System (FPS) increases height of user. For this increased height situation, enhanced awareness of surroundings must be observed. Failure to do so may cause serious injury to personnel.

WARNING

Use of FPS results in increased foot width. User must take wider steps to avoid tripping or serious injury may result.

WARNING

Use of the FPS on uneven terrain may cause feet to slide more easily on flat ground. User must walk slowly and take smaller steps on these surfaces. Failure to do so may cause serious injury to personnel.

WARNING

Use of the FPS on uneven terrain may cause user to lose balance. User must walk with caution on these surfaces. Failure to do so may cause injury to personnel.

WARNING

The operator must wear protective clothing (leg, chest, arm, face and head protection) in addition to the FPS. Failure to wear protective clothing ensemble may result in serious injury or death to personnel.

LIST OF EFFECTIVE PAGES/WORK PACKAGES

NOTE: This manual supersedes TM 10-8470-203-10 dated 1 October 2001. Zero in "Change No." column indicates an original page or work package.

Date of issue for revision is:

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TOTAL NUMBER OF PAGES FOR FRONT AND REAR MATTER
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**HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 1 NOVEMBER 2005**

TECHNICAL MANUAL

**OPERATOR'S MANUAL
FOR**

BODY ARMOR SET, INDIVIDUAL COUNTERMINE (BASIC)

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures please let us know. Mail your letter, DA form 2028 (Recommended Changes to Publications and Blank Forms), located in the back of this manual directly to: Commander, U.S. Army Tank-automotive & Armament Command, ATTN: AMSTA-LC-CECT, Kansas St., Natick, MA 01760. You may also submit your recommended changes via electronic mail or by fax. Our fax number is DSN 256-5205 or COM 508-233-5205. Our e-mail address is amssbriml@natick.army.mil. A reply will be furnished to you.

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HOW TO USE THIS MANUAL

OVERVIEW

This manual contains operating instructions and operator preventive maintenance checks, and services (PMCS) for the Body Armor Set Individual Countermine (BASIC), as well as operator information regarding the Foot Protection System (FPS). This manual is divided into the following major sections:

Front Cover. Provides information about the equipment covered by the TM.

Warning Summary. Provides a summary of all warnings that apply throughout the manual.

Table of Contents. Lists chapters and work packages in order of appearance.

Chapter 1. General Information, Equipment Description and Theory of Operation. Provides descriptions, equipment data, and theory of operation information.

Chapter 2. Operator Instructions. Provides donning information, data label information, and operating instructions in both usual and unusual conditions.

Chapter 3. Operator Maintenance Instructions. Provides fitting instructions, PMCS, maintenance procedures, and preparation for storage and transport.

Chapter 4. Supporting Information. Provides reference information, components of the end item information, additional authorization list, spare parts information and expendable and durable item list.

NAVIGATION

This TM is in work package format. All of the work packages contained within the TM are listed in the table of contents in the order they appear by chapters. The work package sequence number (e.g. WP 0001) is listed for each work package in the table of contents. The work package sequence number is at the top of each page of the work package and is also a part of the page number for each work package (e.g., WP 0001-1). The page numbers appear at the bottom of each page.

OPERATION AND MAINTENANCE

Operation

Before you use the BASIC, familiarize yourself with the donning and doffing instructions (Chapter 2), operator instructions (Chapter 2), and fitting instructions (Chapter 3). Perform the before PMCS procedures (Chapter 3) prior to starting operation. Read and follow the operating instructions contained in chapter 2. Always follow the WARNINGS and CAUTIONS. Perform the PMCS before using the BASIC, while wearing the BASIC during your mission, and after removing the BASIC.

Maintenance

When you perform maintenance, look over the entire procedure before beginning. Make sure you have the necessary tools and materials. Always observe WARNINGS and CAUTIONS.

CHAPTER 1

**GENERAL INFORMATION, EQUIPMENT DESCRIPTION AND
THEORY OF OPERATION**

FOR

BODY ARMOR SET, INDIVIDUAL COUNTERMINE

(BASIC)

**OPERATOR MAINTENANCE
BODY ARMOR SET, INDIVIDUAL COUNTERMINE (BASIC)
GENERAL INFORMATION**

SCOPE

This manual covers the basic fitting and use instructions for the Body Armor Set, Individual Countermine (BASIC), hereafter referred to as BASIC.

MAINTENANCE FORMS, RECORDS, AND REPORTS

Department of the Army forms and procedures used for equipment maintenance will be those prescribed by DA PAM 750-8, Functional Users Manual for the Army Maintenance Management System (TAMMS).

**REPORTING EQUIPMENT IMPROVEMENT
RECOMMENDATIONS (EIR)**

If your BASIC needs improvement, let us know. Send an EIR. You, the user, are the only one who can tell us what you don't like about your equipment. Let us know why you don't like the design or performance. Put it on an SF 368 (Product Quality Deficiency Report). Mail it to the address specified in DA PAM 750-8, or as specified by the contracting activity. We will send you a reply.

LIST OF ABBREVIATIONS/ACRONYMS

AP	Anti-Personnel
BASIC	Body Armor Set Individual Countermine
BDU	Battle Dress Uniform
ECWCS	Extended Cold Weather Clothing System
FPS	Foot Protection System
ICWB	Intermediate Cold/Wet Boot
MOPP	Mission-Oriented Protection Posture
NBC	Nuclear, Biological and Chemical (NBC)
OTV	Outer Tactical Vest
PASGT	Personnel Armor System for Ground Troops
PMCS	Preventive Maintenance Checks and Services
SAPI	Small Arms Protective Insert
SCALPS	Suit, Contamination Avoidance Liquid Protective
TAMMS	Total Army Maintenance Management System
TTP	Tactics, Techniques, and Procedures

END OF WORK PACKAGE

**OPERATOR MAINTENANCE
BODY ARMOR SET, INDIVIDUAL COUNTERMINE (BASIC)
EQUIPMENT DESCRIPTION AND DATA**

**EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND
FEATURES**

The BASIC is designed to provide protection to the soldier conducting countermine clearing operations by reducing the effects of blast and fragments from small to medium anti-personnel (AP) mines and booby traps. Although the BASIC enhances the protection to the soldier, the suit will not protect the wearer against the detonation of all AP mines; injury or death can occur from the effects of a detonated mine while wearing the BASIC.

The BASIC provides varying levels of ballistic protection to distinct zones of the body and balances the levels of increased protection against the soldier's ability to accomplish countermine tasks. The standard precautions taken by a soldier during minefield clearing operations must still be applied when wearing the BASIC.

The BASIC is intended to be worn by soldiers when conducting area clearance countermine operations in accordance with FM 20-32 and applying appropriate tactics, techniques, and procedures (TTPs).

Only the types of boots and clothing listed in WP 0009 should be used with the BASIC components.

The BASIC is equipped with straps and hook and pile fasteners that enable the components to be easily removed in an emergency from an injured soldier.

LOCATION AND DESCRIPTION OF MAJOR COMPONENTS

The BASIC is made up of the following ballistic components:

- a. Helmet Cover (Ballistic)
- b. Face Shield
- c. Mine Protective Overboots
- d. Anti-Fragmentation Trousers (Ballistic)
- e. Vest Cover (Ballistic)
- f. Armor Chest Plate (Ballistic)
- g. Upper Arm Protector (Ballistic)
- h. Lower Arm Protector (Ballistic)
- i. Collar (Ballistic)
- j. Armor Groin Plate with Carrier (Ballistic)

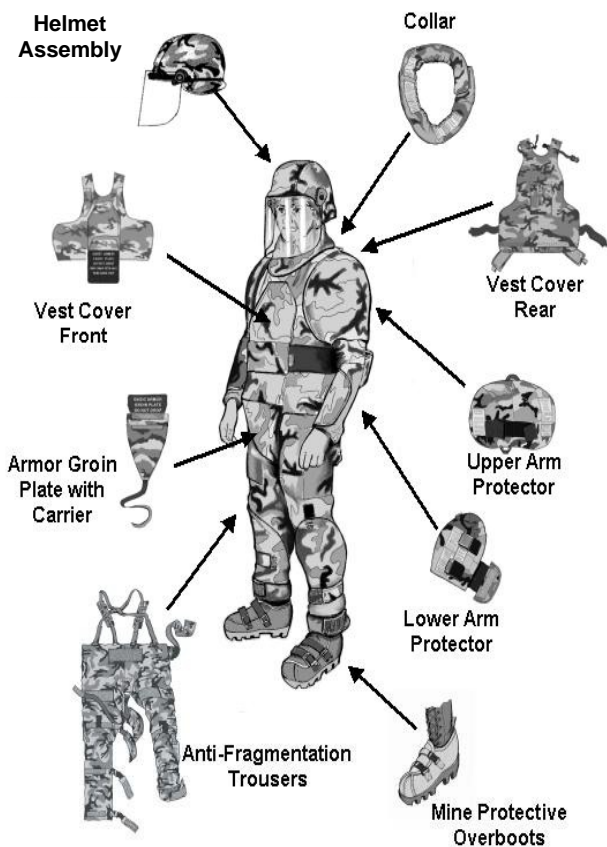


Figure 1. Components of BASIC System.

Foot Protection System (FPS) Spider Boots are available as an additional authorized item.

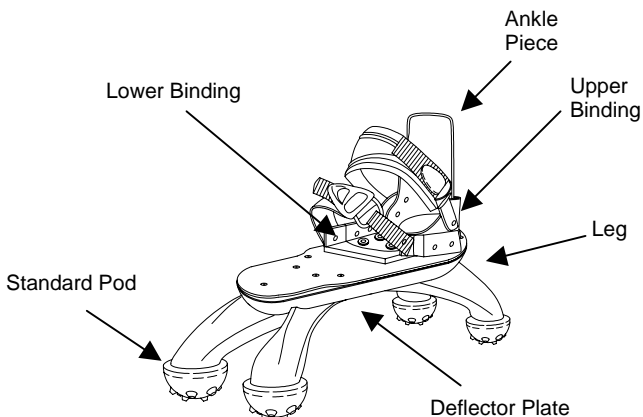


Figure 2. Foot Protection System.

WARNING

The operator must wear protective clothing in addition to the FPS.

WARNING

Use of FPS increases height of user.

WARNING

Use of FPS results in increased foot width. Must take care to take wider steps to avoid tripping or serious injury may result.

WARNING

Use of FPS Spider Boots may cause feet to slide more easily on flat ground.

WARNING

Use of FPS on uneven terrain may cause user to lose balance. User must walk with caution on these surfaces

CAUTION

Limit exposure of FPS to very wet environments. This will reduce the possibility of water seeping into the deflector.

The FPS protects the operator by increasing the distance between the foot and a potential charge by 15 to 20 centimeters, by averting part of the charge away from the foot, and by absorbing some of the energy transferred from an anti-personnel mine.

Sandpods are also available for use with the FPS.

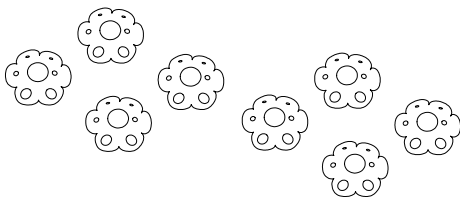


Figure 3. Sandpods.

Table 1. Sizes.

COMPONENT	SIZES AVAILABLE
Helmet Cover	Small, Medium, Large
Face Shield	One size fits all
Overboots	5,7,9,11,12
Trousers	Small, Medium, Large
Vest Cover	Small, Medium, Large
Armor Chest Plate	One size fits all
Upper Arm Protector	Small, Medium, Large
Lower Arm Protector	Small, Medium, Large
Collar	Small, Medium, Large
Armor Groin Plate	One size fits all
Groin Plate Carrier	One size fits all
FPS Spider Boot	One size fits all

END OF WORK PACKAGE

OPERATOR MAINTENANCE BODY ARMOR SET, INDIVIDUAL COUNTERMINE (BASIC) THEORY OF OPERATION

This work package discusses theory of operation and protective qualities of the BASIC system.

Armor plates are used to achieve the highest level of fragmentation protection for the chest and groin areas. Head area protection is achieved with a combined installation of the standard Personnel Armor System for Ground Troops (PASGT) helmet with a soft ballistic cover. The face shield does not provide the same level of protection provided by the helmet with cover. To provide optimal visual clarity, the face shield is constructed with a clear polycarbonate lens that provides reduced fragmentation protection. The neck, torso, arm and leg areas provide a range of ballistic protection through the use of multiple layers of ballistic materials, which form a strong yet pliable barrier against mine fragments. The feet are protected with component materials designed to deflect blast and fragments away from the feet.

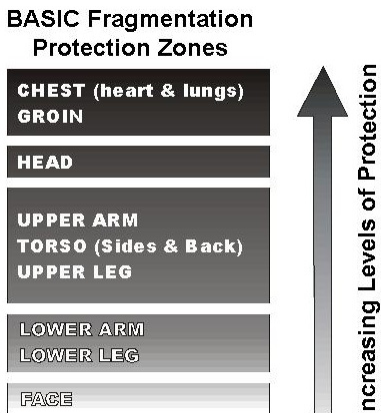


Figure 1. BASIC Fragmentation Protection Zones.

END OF WORK PACKAGE

CHAPTER 2
OPERATOR INSTRUCTIONS
FOR
BODY ARMOR SET, INDIVIDUAL COUNTERMINE
(BASIC)

OPERATOR MAINTENANCE
BODY ARMOR SET, INDIVIDUAL COUNTERMINE (BASIC)
OPERATION UNDER USUAL CONDITIONS
DONNING AND ADJUSTMENT

This work package contains instructions for donning and adjusting the BASIC.

Helmet

Ensure helmet assembly is put together (see WP 0011) prior to donning the BASIC.

Overboots

1. Be sure you have the correct size overboot for the type and size boot you are wearing, see WP 0009.
2. Unfasten the buckles of the overboot and fully extend the tongue.
3. Place your boot into the overboot. Be sure your boot heel is seated at the back of the overboot for a secure fit.



Figure 1. Donning the Overboot.

4. Fasten the overboot buckles and tighten the web straps until the overboot fits snugly over your boot.



Figure 2. Fastening the Overboot Buckles.

WARNING

The overboot increases the height of your heel and sole. Use caution when walking to avoid tripping or twisting your ankle.

5. Walk around briefly then re-adjust the overboot, but do not get it uncomfortably tight. It may be necessary to re-adjust during use.

NOTE

It is recommended that the user adjust the FPS, take off the FPS, put on trousers, and then put the FPS back on.

END OF TASK

FPS—Putting on the FPS

1. Orient the FPS so that the buckles, when fastened, are toward the outside of the foot.

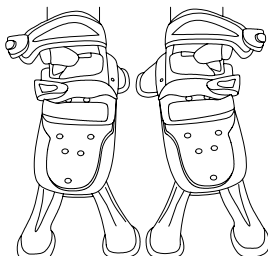


Figure 3. FPS Proper Orientation.

2. Position the ankle piece vertically and make sure the buckles are detached.
3. Place the foot on the platform.
4. Press down on the tongue and insert the grooved strap into the buckle.

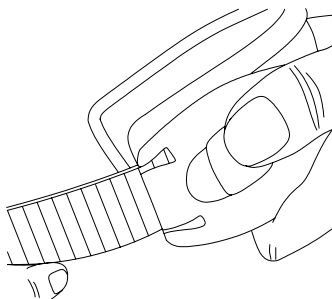


Figure 4. Fastening Buckle.

5. Pull upwards on the outer buckle to tighten the strap.

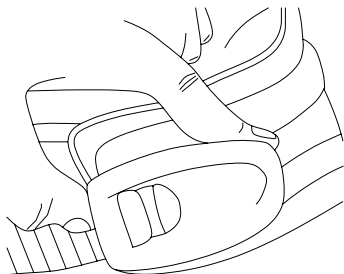


Figure 5. Tightening Strap.

END OF TASK

FPS—Adjusting the Binding

1. Put on the military boots to be worn in conjunction with the FPS. The FPS can be adjusted for the thickness of the military boot and foot length.

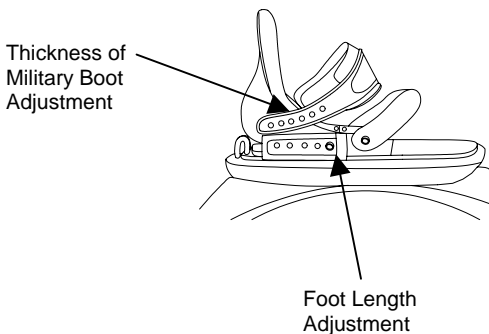


Figure 6. Adjusting the FPS Binding.

2. Step onto the platform and position the foot so that the ball of the foot sits just in front of the binding.

3. If the back of the military boot fits comfortably against the ankle support, no adjustment is necessary. If the fit is too tight or too loose, follow the rest of this procedure.
4. Remove the nylock nuts and bolts, which hold the upper binding and lower binding together.

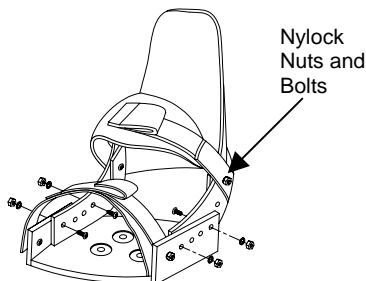


Figure 7. Nylock Nuts and Bolts Removal.

5. Move the upper binding backward to accommodate a larger boot.

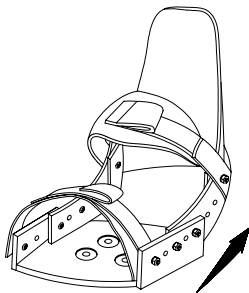


Figure 8. Adjusting the Upper Binding.

6. Move the boot forward to accommodate a smaller boot.

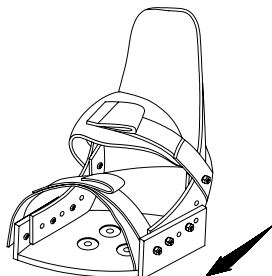


Figure 9. Adjusting to Accommodate Smaller Boot.

7. Replace the bolts and tighten the nylock nuts when a comfortable fit has been obtained.

END OF TASK

Trousers

NOTE

Assistance may be needed to don and properly adjust the trousers.

1. Be sure you have the correct size trousers, see WP 0009.

NOTE

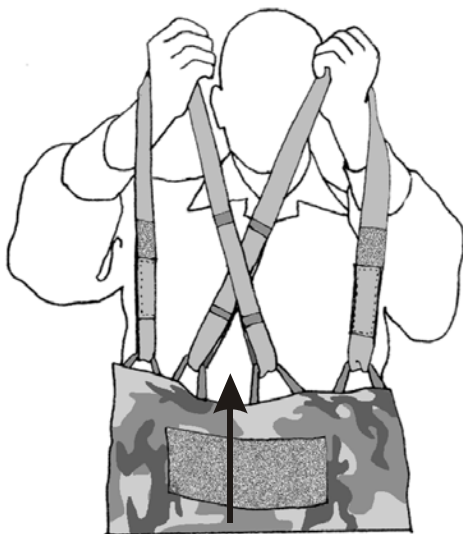
Trouser donning procedures are best performed while standing.

2. Hold the trousers in front of you with the inside facing you.

NOTE

A label located on the suspender strap points out the front end, which passes through the center front trouser loops.

3. Fasten the suspenders so that they will crisscross at the back, and come straight down over the front of each shoulder to the trouser, by passing the ends through the loops on the top edge of the trousers and fastening the hook and loop fasteners.



CENTER OPENING

Figure 10. Fastening the Suspenders.

4. While holding the trousers in front of you with the inside facing you, pass your head through the center opening and pass your arms through the side openings of the suspenders.
5. Wrap the trousers around your waist and secure with the waist belt.

NOTE

Be sure pad is installed with the padded surface toward the shoulder for maximum comfort.

6. Install shoulder pads onto suspenders by, one at a time, unfastening each suspender, sliding the pad into position, and re-fastening the suspender.

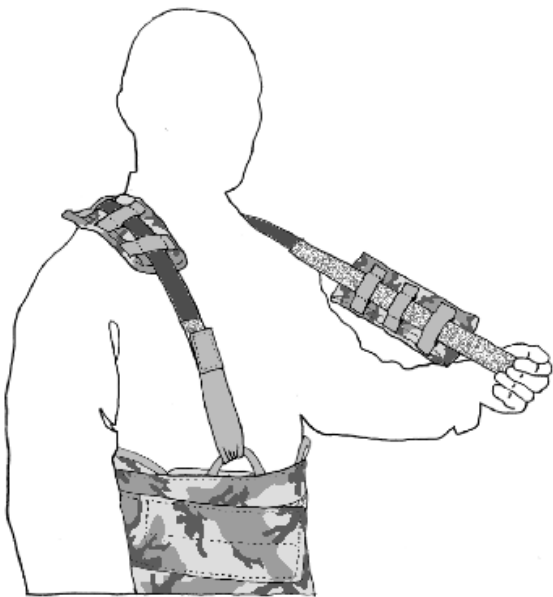


Figure 11. Installing Shoulder Pads Onto Suspender.

7. Pull the elastic strap at the end of the groin protector back between the thighs and attach at the center back of the waist belt using the hook and pile fastener.

NOTE

Cross goes in the back.

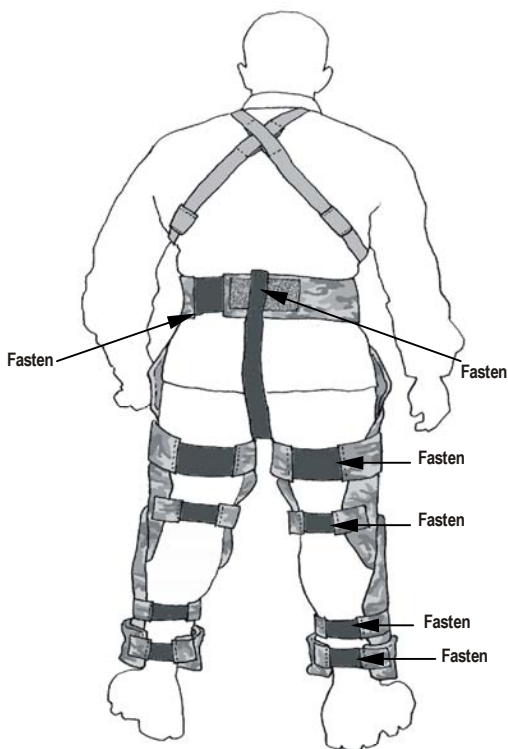


Figure 12. Trousers Adjustment.

NOTE

If trousers are adjusted too low, they will restrict your movements.

8. Adjust the height of the trousers so that the groin protector is placed firmly against the groin area, and where movement is not restricted.

NOTE

Trouser leg may be cuffed to adjust length before fastening the bottom leg strap.

9. Beginning at the top of your thigh, the assistant fastens the leg straps around the back of the trousers. Complete one leg before fastening the other.
10. Verify trouser length is just below the top edge of the overboot.
11. Walk briefly, then adjust the leg straps so that the trousers fit securely, but do not restrict movement. Additional adjustments may be needed during a mission.

END OF TASK**Vest Cover****WARNING**

For maximum protection against antipersonnel mines, wear the vest cover with your PASGT Vest or Interceptor Body Armor. The BASIC must be worn with either the Interceptor Body Armor or the PASGT Vest.

The vest cover will be worn over either the PASGT vest (with the collar up) or Interceptor Body Armor, Outer Tactical Vest (OTV). If wearing the OTV, assemble your OTV base vest without the collar, throat protector, groin protector, and small arms protective insert (SAPI) plates located in the front and back OTV pockets. The PASGT vest does not require dismantling.

NOTE

Assistance may be needed to don and properly adjust the vest cover.

1. Ensure you have the correct size vest cover, refer to WP 0009, and that you have a front and back vest cover half. The front half has a pocket on the outside that is closed by means of a flap with hook and pile fastener to place the chest plate, and a flap, low on the front where the groin plate is attached. The back half has an open pocket on the inside, approximately mid back; the pocket is for the storage of this manual.

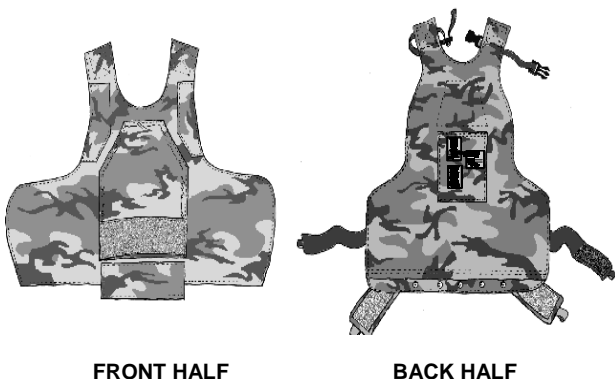


Figure 13. Vest Cover.

2. Open the chest plate pocket on the front half at the bottom edge, and insert armor chest plate, with the curve to the front, into the pocket of the vest cover. Secure the chest plate by closing the flap at the bottom of the pocket with the hook and pile fastener.

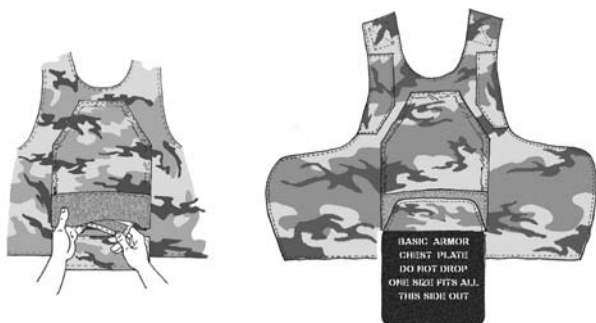


Figure 14. Inserting Armor Chest Plate.

3. Be sure the fragmentation protective insert is in the back half of the vest cover by opening the bottom edge of the vest cover back half. If not in place, or improperly placed, perform the following steps:
 - a. Open vest cover back half at the bottom edge.
 - b. Separate the protective insert from the vest cover. It is attached from both sides using hook and pile fasteners.

NOTE

Proper alignment is needed to allow the articulation of the insert and to prevent any folds in the material.

- c. Position protective insert so that it aligns with the hook and pile fasteners.

WARNING

Ensure that the fragmentation protective insert is not folded over inside the vest cover back half. Correct positioning is required to provide maximum available protection. Failure to do so may cause serious injury or death to personnel.

- d. Check for correct installation, then close the vest cover back half with the hook and pile fasteners.
4. Fasten the vest cover halves together at the shoulder tabs with the hook and pile fasteners.
5. Place your head through the center opening with the chest plate to the front.

NOTE

Correct position of the vest cover is to have the neckline of the cover at the bottom edge of the PASGT collar or OTV neckline.

Vest is properly adjusted when the back half is against the PASGT collar or OTV neckline.

6. Adjust the hook and pile fasteners at each shoulder of the vest cover until the front neckline of the vest cover is at the bottom edge of the PASGT collar or OTV neckline and the back vest cover is against the PASGT collar or OTV neckline.
7. Wrap the narrow elastic band that is attached to the edges of the vest cover back half, around the mid section and under the front half of the vest cover.

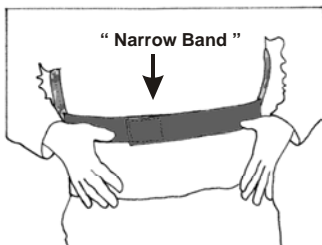


Figure 15. Vest Cover Narrow Elastic Band.

NOTE

Assistance may be required to align the tabs.

8. Fasten the tabs at the sides of the vest cover front half, to the back half using the hook and pile fasteners.
9. Wrap the wide elastic band that is attached to the outside of the vest cover back half over the front of the vest cover front half and secure using the hook and pile fasteners.



Figure 16. Donning the Vest Cover.

END OF TASK

Armor Groin Plate

The armor groin plate attaches to the outside of the vest cover, below the chest plate. The groin plate is a one size fits all item.

NOTE

The back of the cloth carrier has two snaps, be sure the outwardly curved section of the groin plate is opposite the snaps.

1. Insert the groin plate into the cloth carrier and close using the hook and pile fasteners.



Figure 17. Groin Plate.

NOTE

There are two rows of snap and pile combinations, an upper and lower position. Position the plate so that it is not too low to impede movement.

2. Lift the flap on the front of the vest cover and attach the groin plate by means of the hook and pile fasteners and snaps to one of the rows. Be sure the snaps from the cloth carrier to the vest cover are secured to prevent the plate coming loose during operations.
3. Close the vest cover flap over the groin plate using the hook and pile fasteners.



Figure 18. Attaching Groin Plate to Vest Cover.

4. Pull the elastic strap that is attached to the bottom of the groin plate carrier back between your legs and attach to the outside of the back vest cover half using the hook and pile fastener. Adjust the slack in the strap so the groin plate does not impede movement.



Figure 19. Rear View of BASIC (Without Arm Protection).

END OF TASK

Arm Protectors

The arm protectors are in two pieces, an upper and lower section. Assistance is needed to properly don the arm protectors.



LOWER



UPPER

Figure 20. Upper and Lower Arm Protectors.

1. Be sure you have the correct size arm protectors, see WP 0009.
2. Begin with either the right or left set of arm protectors.
3. Connect the lower arm protector to the upper arm protector by passing the strap from the lower arm through the loop at the bottom edge of the upper arm protector and fasten with the hook and loop fastener.

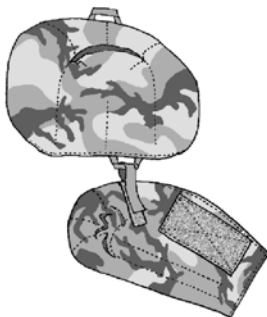


Figure 21. Upper and Lower Arm Protectors Connected.

4. Disconnect the buckle of the strap at the shoulder of the protective vest cover, and loosen the adjustment of the buckle.
5. Pass the strap from the vest cover, through the upper loop of the upper arm protector and fasten the buckle.

NOTE

If upper protector is positioned below elbow crease it will restrict movement.

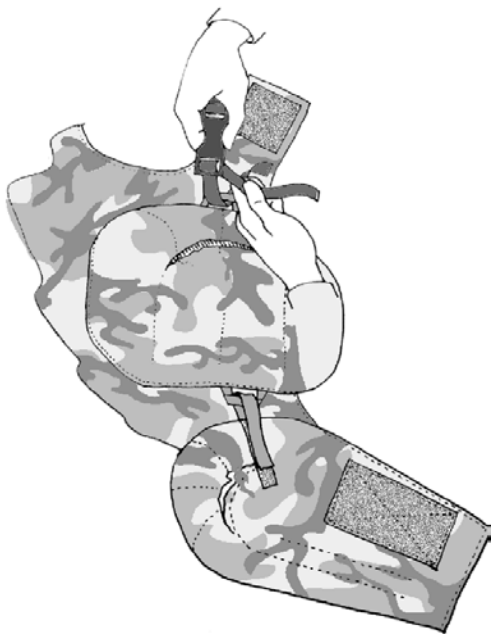


Figure 22. Attaching Arm Protectors to Vest.

6. Adjust the position of upper arm protector, so that the bottom edge of the upper arm protector is just above the crease of the elbow with the arm bent to approximately 90 degrees.

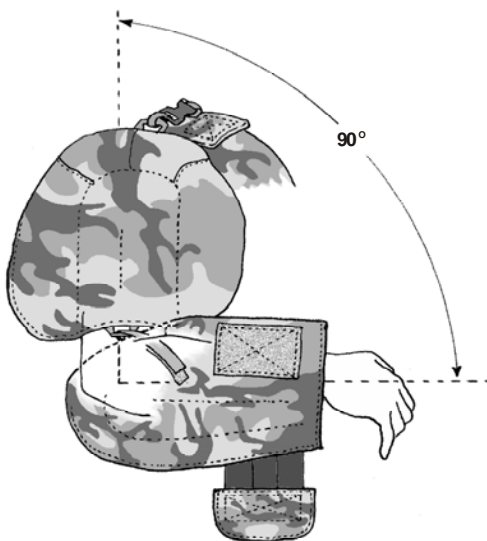


Figure 23. Adjusting Position of Upper Arm Protector.

7. Fasten the upper protector around the upper arm using the strap and fasten with the hook and loop fastener.

NOTE

If lower protector is positioned below wrist crease, it will restrict movement.

8. Loosen the strap that attaches the lower to upper arm protector if necessary to make position adjustments. With the arm bent to approximately 90 degrees, and palm up, position the lower arm protector under the forearm, with the straight edge positioned just above the wrist crease.
9. Fasten the lower protector using the two elastic bands and fasten with the hook and pile fasteners. Reposition the arm protector if necessary.
10. Wrap the ballistic material of the lower arm protector around the forearm and secure using the elastic band with the wide tab and the hook and pile fastener.



Figure 24. Securing Lower Arm Protection.

END OF TASK

Collar

The BASIC System collar is worn around the neck over the PASGT or OTV neckline.

1. Ensure you have the correct size collar. See WP 0009.
2. Wrap the collar around the neck so that the hook and pile fasten is on the right side of the neck.



Figure 25. BASIC Collar.

3. Fasten the collar using the hook and pile fastener.
4. Position the collar so that it covers the neck to just below the ears, but allows free movement of the neck and chin.

WARNING

Ballistic cover and face shield add weight to the helmet. The assembly shifts the balance point forward. A high risk of injury to the neck may be expected when the soldier wearing the helmet, helmet cover, and face shield is subjected to external forces or accelerations such as falls, jumping from heights, vehicular movement over rough terrain, or direct impact to the helmet.

END OF TASK

Helmet

Don helmet assembly and secure with the PASGT chinstrap. The face shield is raised and lowered by pressing the ribbed section of the release hinge, and moving the face shield to the desired position.

END OF TASK
END OF WORK PACKAGE

**OPEARTOR MAINTENANCE
BODY ARMOR SET, INDIVIDUAL COUNTERMINE (BASIC)
OPERATION UNDER USUAL CONDITIONS
DOFFING INSTRUCTIONS**

This work package contains information about doffing the BASIC.

CAUTION

Hook and pile fasteners should be re-closed after items are removed to prevent damage to fasteners.

NOTE

Assistance may be required to remove the BASIC.

1. Close hook and pile fasteners after each item is removed.
2. Remove the PASGT helmet with helmet cover and face shield assembly.
3. Remove collar.
4. Remove lower and upper arm protectors.
5. Remove armor groin plate with carrier.
6. Remove vest cover and PASGT (or OTV) vest.
7. Remove trousers, leaving the suspenders attached.
8. Remove overboots.

END OF WORK PACKAGE

**OPERATOR MAINTENANCE
BODY ARMOR SET, INDIVIDUAL COUNTERMINE (BASIC)
OPERATION UNDER USUAL CONDITIONS
LOCATION AND CONTENTS OF DATA PLATES/ DECALS/
LABELS**

This work package contains information about the location and contents of the data plates, decals, and labels found on the BASIC.

<p>BODY ARMOR SET, INDIVIDUAL COUNTERMINE ARMOR GROIN PLATE COVER</p> <p>One Size Fits All</p> <p>Contract Number DAAN02-98-C-4008</p> <p>NSN-8470-01-472-3536</p> <div data-bbox="277 975 812 1106"></div> <p>Generation # _____</p> <p>Lot # _____</p> <p>Date of Manufacture _____</p>

Figure 1. Typical Label 1.

The hand washing instruction for each component shall be as follows.

HAND WASH ONLY

- 1) Remove armor plate
- 2) Scrape dirt/ mud/ dust from armor groin plate cover using a brush that will not cut fabric
- 3) Wash item in warm water using mild soap or detergent
- 4) Rinse thoroughly in clean warm water
- 5) Dry item in shade or indoors
- 6) **DO NOT USE CHLORINE, BLEACH, YELLOW SOAP, CLEANING FLUIDS OR SOLVENTS - WILL DISCOLOR/ DETERIORATE THE ITEM**
- 7) **DO NOT DRY IN DIRECT SUNLIGHT, DIRECT HEAT OR NEAR OPEN FLAME**
- 8) **DO NOT LAUNDRY OR DRY ITEM IN FIXED COMMERCIAL HOME-TYPE LAUNDRY EQUIPMENT**

Figure 2. Typical Label 2.

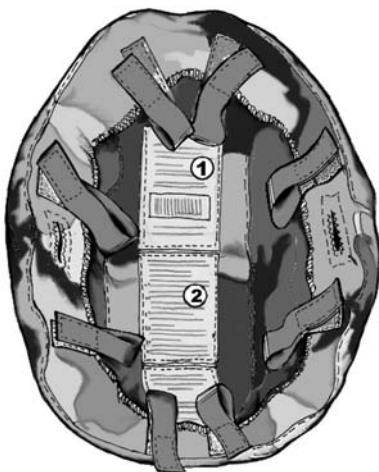


Figure 3. Location of Typical Labels on Helmet Cover.



Figure 4. Location of Typical Labels on Collar.



Figure 5. Location of Typical Labels on Inside Vest Cover – Front Half.



Figure 6. Location of Typical Labels on Vest Cover – Back Half.



Figure 7. Location of Typical Labels on Upper Arm Protector.

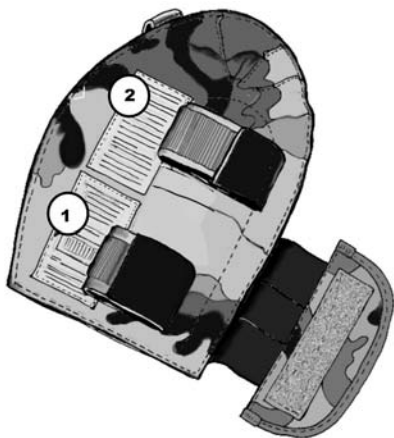


Figure 8. Location of Typical Labels on Lower Arm Protector.

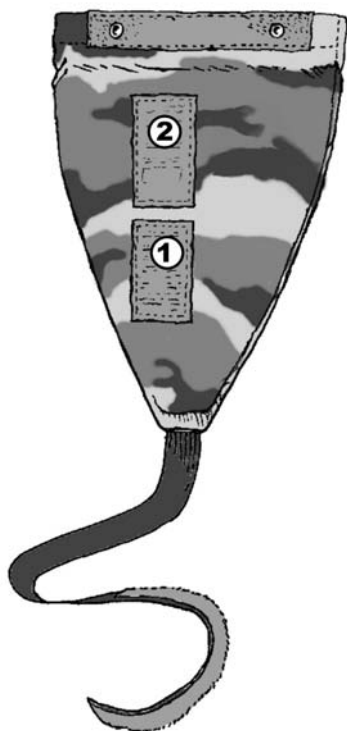


Figure 9. Location of Typical Labels on Groin Plate Carrier.



Figure 10. Groin Plate Labels.



Figure 11. Chest Plate Labels.

END OF WORK PACKAGE

**OPERATOR MAINTENANCE
BODY ARMOR SET, INDIVIDUAL COUNTERMINE (BASIC)
OPERATION UNDER UNUSUAL CONDITIONS**

Cold Weather Conditions (FM 4-25.11)

The BASIC may be worn over the Extended Cold Weather Clothing System (ECWCS) when conditions warrant protection from a cold environment. The BASIC is donned over the ECWCS, which may require the use of larger BASIC component sizes than under normal conditions. Also the protective overboot will not fit over the Extreme Weather overboot. Use the Intermediate Cold/Wet boot (see Table 3, WP 0009).

Cold conditions add the risk of cold injuries such as hypothermia, chilblain, trench foot, frostnip, and frostbite. Seek medical attention if any of these conditions occur. When the BASIC is stored under cold conditions, it will act as a heat sink and draw body heat from the user. Additionally, the extra layers may trap moisture close to the body increasing the likelihood of cold related injuries.

Cold Stress Prevention

1. Be able to recognize cold weather stress and injuries.
2. When using cold weather gear, keep it clean, wear it in loose layers, and stay dry.
3. Avoid overheating, perspiration will cause loss of insulation value, and the body will cool quicker.
4. If the BASIC has been stored in a cold area, warm it prior to use to prevent a cold-soak/loss of body heat condition.
5. Drink plenty of water. Dehydration reduces work capacity, appetite, and alertness, which can lead to cold stress injuries.
6. Work using the buddy system. Check each other for signs of cold injury.
7. Rotate periods of work based on cold exposure.

Hot Weather Conditions (FM 4-25.11)

Hot conditions add the threat of heat related illness. These include heat cramps, heat rash, heat exhaustion and heat stroke. All of these conditions require medical attention, and heat exhaustion and heat stroke require immediate medical attention. Table 1 contains the recommended work and rest times and recommended water intake.

Reduce the risk of heat related illness by:

1. Increase water intake. Intake should be 1 to 1.5 quarts per hour while working, up to 12 quarts per day.
2. Replace salt loss by eating all meals.
3. Rotate periods of work based on heat exposure.
4. When possible work during coolest part of the day.

Table 1. Temperature Specifications/ Recommended Work Schedules/Rest Periods/Water Intake.

Temperature (°F)	Relative Humidity	Water Intake per Hour (qt.)*	Hourly Work/Rest Schedule Minutes	Maximum Work Time in 24 Hour Cycle Minutes
≤77°	Low-High	¾	40/20	160
77° - 90°	Low- Moderate (≤74.5%)	¾	40/20	160
77° - 90°	High (>75%)	1	30/30	120
90° - 100°	Low-High	1	30/30	120
100° - 105°	Low- Moderate (≤74.5%)	1	30/30	120
100° - 105°	High (>75%)	1	20/40	80
105° - 108°	Low-High	1	20/40	80
108° - 110°	Low (≤50%)	1	20/40	80
108° - 110°	Moderate- High (>50.5%)	1.5	10/50	40
>110°	Low-High	1.5	NFW**	NFW**

* Individual requirements will vary by ± 0.25 qt.

** (NFW) No Further Work. Stop Mine Clearing Operations and Remove BASIC.

Nuclear, Biological and Chemical (NBC) Environment

The BASIC is donned over the MOPP gear, which may require the use of larger sizes than under normal conditions. Don all components of MOPP gear except for the protective boots.

Remove face shield from helmet assembly (WP 0012) since the NBC protective mask interferes with the face shield.

WARNING

Use of the BASIC with MOPP gear increases the possibility of heat illness.

Don BASIC. See WP 0004.

Don BASIC and Suit, Contamination Avoidance, Liquid Protection (SCALPS) over your overboots.

The BASIC P3I can be decontaminated for disposal purposes only and is not to be reused. If exposed to CB agents MOPP IV posture must be maintained until BASIC P3I has been safely disposed (FM 3-5, NBC Decontamination).

Water Conditions

Working near water, especially near deep water poses additional risk due to the weight of the BASIC. If immersed in deep water, follow these procedures:

1. Remove and discard helmet assembly.
2. If shore, boat, or other means of safety is close (a few feet) swim to the safe location.
3. If step 2 is not possible, drop the chest and groin plate. Remove overboots. Remove the remainder of the BASIC, and form the components into a ball and utilize the flotation available from these components.

END OF WORK PACKAGE

OPERATOR MAINTENANCE
BODY ARMOR SET, INDIVIDUAL COUNTERMINE (BASIC)
OPERATION UNDER UNUSUAL CONDITIONS
INSTALLATION AND USE OF FPS SANDPODS

The sandpods for the FPS are molded plastic discs, which can be positioned between the legs and the standard rubber pods of the FPS to allow the operator to work with greater ease in sandy conditions. The sandpods distribute weight placed on the legs over a greater area and help to prevent the FPS from sinking into sandy terrain.

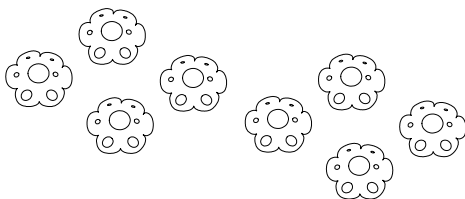


Figure 1. FPS Sandpods.

1. Unscrew the standard pod and position the sandpod so that the notch on the underside of the leg fits through the oblong slit in the disc.

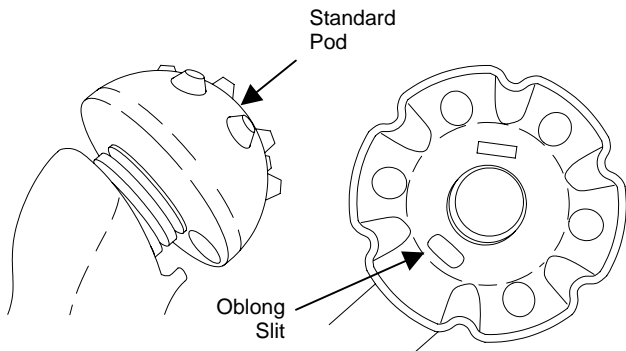


Figure 2. Removing Standard Pod.

2. Replace the standard pod. When the pod is correctly positioned and tightened, the knob should sit in the notch on the underside of the pod. Turn the pod until you the knob fall into place. Always install all four pods.

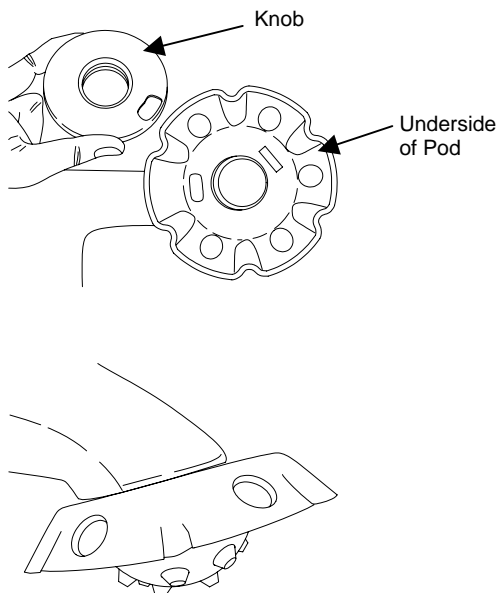


Figure 3. Installing FPS Sandpod.

END OF TASK
END OF WORK PACKAGE

CHAPTER 3

OPERATOR MAINTENANCE INSTRUCTIONS

FOR

BODY ARMOR SET, INDIVIDUAL COUNTERMINE

(BASIC)

**OPERATOR MAINTENANCE
BODY ARMOR SET, INDIVIDUAL COUNTERMINE (BASIC)
EQUIPMENT/USER FITTING INSTRUCTIONS**

INITIAL SETUP:**Tools/Special Tools**

Measuring Tape

Personnel Required

One

Five sizing procedures are required for the proper fit of the system. However the Face Shield, Armor Chest Plate, and Armor Groin Plate are one size fits all, and require no sizing procedure. If the predicted size fits poorly, determining the best fitting size by trying an alternate size.

Helmet Cover

The helmet cover for the PASGT helmet comes in three sizes. Refer to table 1 for the recommended helmet cover size.

Table 1. Helmet Sizing Information.

PSAGT Helmet Size	BASIC Helmet Cover
X-Small and Small	Small
Medium	Medium
Large and X-Large	Large

Protective Overboots Over Standard Combat Boot

The overboots come in five sizes and are intended to be worn over standard issue combat boots. Some half-sizes and wider widths of combat boots will achieve a better fit by using the larger than specified overboot. If you are unable to buckle the straps of the overboot, select the next larger overboot for use during the mission. If your combat boot heel lifts while walking in the overboot, select the next smaller size overboot. Refer to table 2 for the recommended overboot size.

Table 2. Sizing Information for Protective Overboot Over Combat Boots.

Combat Boot Size	Protective Overboot Style
4 – 6	5
6 – 8	7
8 – 10	9
10 – 12	11
11 – 13	12

Protective Overboot Over Intermediate Cold/Wet Boots (ICWB)

Due to the thick ICWB sole, the BASIC overboot only fits over an ICWB boot that is one size smaller. Refer to table 3 for the recommended overboot size.

Table 3. Sizing Information for Protective Overboot Over ICWB.

ICWB Size	Protective Overboot Style
3 – 4	5
4 – 6	7
6 – 8	9
8 – 10	11
9 – 11	12

WARNING

Be sure to evaluate the fit of overboots when worn with alternate military footwear before beginning a mission. Failure to ensure correct size is worn may result in injury to personnel.

The protective overboot may be worn over other standard military footwear when proper fit can be obtained. There are certain types of footwear that the protective overboot cannot be worn over, such as the vapor barrier boot. Be sure that the overboot fits properly before conducting a mission.

FPS Spider Boots

Spider Boots are one size fits all. Refer to WP 0004 for Donning and Adjustment, and for binding adjustment instructions.

Vest Cover and Collar

The BASIC vest cover and collar are available in three sizes and are intended to be worn over the basic PASGT vest or the OTV. The collar comes with the vest cover in the same sizes, but may be mixed with other sizes to achieve the best fit. The users chest circumference is measured at the fullest part of the chest. Refer to Table 4 for the recommended vest cover and collar size.



Figure 1. Measuring/Sizing for Vest Cover and Collar.

Table 4. Sizing Information for Vest Cover and Collar.

Chest Circumference (Inches)	Vest Cover/Collar Size
Less than 36	Small
36 – 42	Medium
Greater than 42	Large

Upper and Lower Arm Protectors

BASIC upper and lower arm protectors come in three sizes. They are intended to be worn over the sleeves of Battle Dress Uniforms (BDU) or over exposed arms when short sleeve garments are worn. A long sleeve garment should be worn to minimize the chafing of the skin on the arms. Predicted sizes from the outseam measurement will be the same for both the upper and lower protectors, however, upper and lower protectors of different sizes may be mixed to achieve a better fit. Sleeve outseam is measured from the top of the shoulder joint, to the wrist using a tape measure. Ensure the arms are hanging to the side and slightly bent when obtaining the measurement. Refer to Table 5 for the recommended arm protector size.

**Figure 2. Measuring/Sizing for Upper and Lower Arm Protectors.**

Table 5. Sizing Information for Upper and Lower Arm Protector.

Sleeve Outseam (Inches)	Arm Protector Size
Less than 22	Small
22 – 24	Medium
Greater than 24	Large

Anti-Fragmentation Trouser

The BASIC Anti-Fragmentation Trouser comes in three sizes. The Trouser is intended to be worn over BDUs. The Trouser inseam is derived from measuring from the crotch to the ground (or floor) and subtracting 2 inches to derive the inseam measurement. Refer to Table 6 for the recommended trouser size.



Figure 3. Measuring/Sizing for Anti-Fragmentation Trousers.

Table 6. Sizing Information for Anti-Fragmentation Trousers.

Inseam (Inches)	Trouser Size
Less than 30	Small
30-32	Medium
Greater than 32	Large

END OF WORK PACKAGE

**OPERATOR MAINTENANCE
BODY ARMOR SET, INDIVIDUAL COUNTERMINE (BASIC)
PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)**

INTRODUCTION**General**

Preventive maintenance checks and services (PMCS) are performed to keep the BASIC in operating condition. The checks are used to find, correct, or report problems. Operator is to do the PMCS jobs as shown in the PMCS table. PMCS is to be done before, during and after use of the BASIC.

Before you use the BASIC, do the PMCS.

During use of BASIC periodically perform PMCS.

After you have used the BASIC, perform PMCS.

PMCS COLUMN DESCRIPTION

ITEM – The order the PMCS should be performed and a reference number for maintenance forms.

INTERVAL – Tells when the check should be performed.

ITEM TO BE CHECKED OR SERVICED – Tells which item to perform the PMCS procedure on.

PROCEDURE – Tells the procedure to perform. If item cannot be repaired, it must be replaced.

EQUIPMENT NOT READY IF: – Tells what conditions render the BASIC unfit to perform the mission.

Table 1. Preventive Maintenance Checks and Services.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY IF:
1	Before	Vest Cover, Trousers, Collar, Overboots, Groin Plate Carrier	<p>Check for: Tears, cuts, or snags and soiling. For tears less than 1 inch refer to WP 0014 for repair procedures. If tears are over 1 inch, refer to higher-level maintenance for repair. Soiling refer to WP 0013 for cleaning procedures.</p> <p>Exposure of yellow filler.</p> <p>Lumping or bunching of ballistic materials.</p>	<p>Cuts or tears are greater than 1 inch in size. Gray or dirty areas on ballistic filler that may conceal cuts or tears.</p> <p>Filler is exposed</p> <p>When lumping and/or bunching cannot be flattened or removed by smoothing by hand.</p>
2	Before	Hook and Pile Fasteners	Inspect hook and pile fasteners for tearing or damage. Refer damaged hook and pile fasteners to higher-level maintenance for repair.	Fasteners are damaged such that they will not fasten securely causing improper fit.

Table 1. Preventive Maintenance Checks and Services - cont.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY IF:
3	Before	Straps/ Elastic Webbing	Inspect straps and elastic webbing for damage. If damaged, refer to higher-level maintenance for repair.	Straps or webbing are damaged and will not function properly causing improper fit.
4	Before	Face Shield	Inspect for cracks and scratches.	Face shield is cracked or scratched such that it is difficult to see clearly through it.
5	Before	Ballistic Plates	<p>Shake the plate to see if it rattles.</p> <p>Check for individual chips on the black surface coating.</p> <p>Check for cracks.</p>	<p>Plate rattles.</p> <p>Chips are greater than 1 inch in diameter.</p> <p>Cracks are greater than 1 inch long or 1/16 inch wide in the inner ballistic material (white).</p>

Table 1. Preventive Maintenance Checks and Services– cont.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY IF:
6	During	Fasteners/ Straps	Inspect for secure fit and proper function of straps/ Fasteners, as well as damage.	Straps or fasteners are damaged such that secure and proper fit cannot be maintained
7	After	BASIC	Inspect for explosive fragment hits.	Fragments are embedded in the ballistic filler (yellow material) or tears, cuts, or soiling from fragment hits are found.
8	After	Vest Cover, Trousers, Collar, Overboots, Groin Plate Carrier	Check for tears, cuts, or snags. Refer any torn, cut, or snagged items to higher-level maintenance for repair.	Tears, cuts, or snags are found.

Table 1. Preventive Maintenance Checks and Services– cont.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY IF:
9	After	FPS Spider Boots	<p>Check the binding mechanisms to ensure that they are free from dirt and debris.</p> <p>Check under the hinge plate to ensure the area is free from dirt and debris.</p> <p>Check for worn or damaged pods. Replace a pod when any of the knobs has been completely worn down.</p>	<p>Straps of fasteners are damaged such that secure and proper fit cannot be maintained.</p> <p>Knob is completely worn.</p>

END OF WORK PACKAGE

**OPERATOR MAINTENANCE
BODY ARMOR SET, INDIVIDUAL COUNTERMINE (BASIC)
HELMET ASSEMBLY**

INITIAL SETUP:**Tools/Special Tools**

None

Personnel Required

One

Materials Required

None

References

WP 0009

Helmet assembly includes installation of the BASIC helmet cover and face shield.

Helmet Cover

The BASIC Helmet Cover is installed over the PASGT helmet and is assembled first, before donning the rest of the BASIC system to avoid heat stress. Don the assembled helmet only after you have donned the rest of the BASIC.

NOTE

Ensure you have the correct size cover (see WP 0009).

1. Open all eight fastening tabs.



Figure 1. BASIC Helmet Cover.

2. Remove and stow standard camouflage cover (not the ballistic helmet cover) from helmet.
3. Slide the helmet into the ballistic cover, starting from the back of the helmet, and pull cover around the brim. Adjust the helmet cover until it overlaps the edge of the PASGT helmet evenly around the brim.

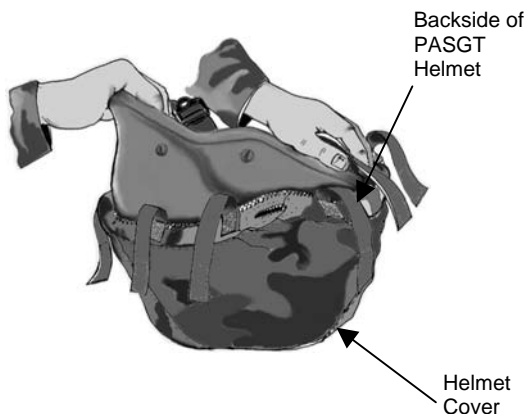


Figure 2. Sliding the Helmet Into the Ballistic Cover.

4. Unsnap the chinstrap from the PASGT helmet. Pass the ends of the chinstrap through the buttonholes of the helmet cover.



Figure 3. Passing the Ends of Chinstrap through the Buttonholes.

NOTE

Do not fasten the back 2 center tabs.

5. Loop each fastening tab of the helmet cover around the PASGT helmet's fixed web suspension, located behind the headband except for the two back center tabs.

NOTE

Figure 4 details installing the PASGT helmet cover over the standard PASGT helmet cloth cover.

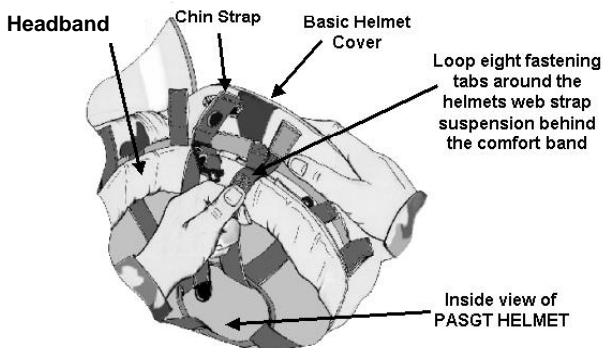


Figure 4. Helmet Assembly.

END OF TASK**Face Shield**

The BASIC Face shield is installed over the PASGT helmet and BASIC Helmet Cover. Assemble the shield to the helmet before donning the rest of the BASIC system to avoid heat stress. Don the assembled helmet with shield only after you have donned the rest of the BASIC.

1. Loosen the black web strap as much as possible while keeping the strap through the buckle.
2. Center the "J" hooks on the strap, opposite of the shield, approximately two inches apart.
3. In a sitting position, place the PASGT helmet with cover on your legs, with the inside up and the front away from you.



Figure 5. Helmet Assembly – continued.

4. With the face shield assembly upside down and in the deployed position (down), hook the black plastic gutter over the front lip of the helmet, then position the web strap around the helmet, with the adjusting buckle all the way to one side. See Figure 5, above.
5. Pass the two “J” hooks through the buttonholes at the back center of the helmet cover and hook them over the edge of the PASGT helmet.

NOTE

Figure 6 details "J" hooks. The PASGT helmet is shown up side down showing the "J" hooks through the buttonholes at the center of the helmet.



Figure 6. Helmet Assembly – continued.

6. Pass the back center tabs behind the helmet web strap suspension and attach the strap's hook fastener to the pile fastener on the ballistic cover.
7. Work the strap from the side opposite the buckle through the "J" hooks so that it is snug and lays flat.
8. Tighten the strap at the buckle while making sure the black plastic gutter remains centered on the front of the PASGT helmet and the seal lies smoothly with no folds of material bunched underneath.

END OF TASK

END OF WORK PACKAGE

**OPERATOR MAINTENANCE
BODY ARMOR SET, INDIVIDUAL COUNTERMINE (BASIC)
FACE SHIELD DISASSEMBLY PROCEDURE**

INITIAL SETUP:**Tools/Special Tools**

None

Personnel Required

One

Removal of Face Shield

1. Loosen strap.
2. Unfasten the two helmet cover tabs at the back of the PASGT helmet.
3. Unhook shield hooks from helmet and pass them through the helmet cover.
4. Unhook front of face shield from the helmet and remove the shield.

END OF TASK**Remove Helmet Cover**

1. Unfasten helmet cover tabs from around the helmet fixed web suspension.
2. Remove helmet cover from the PASGT helmet.

END OF TASK**END OF WORK PACKAGE**

**OPERATOR MAINTENANCE
BODY ARMOR SET, INDIVIDUAL COUNTERMINE (BASIC)
CLEANING INSTRUCTIONS**

INITIAL SETUP:**Tools/Special Tools**

None

Personnel Required

One

Materials Required

Brush, Soft Bristle (items 2-4, WP 0023)

Cloth, Cleaning (item 1, WP 0023)

Detergent, Mild (items 6-7, WP 0023)

Measuring Tape (item 10, WP 0023)

Rag (item 5, WP 0023)

Soap, Mild (item 9, WP 0023)

Solvent, Dry Cleaning (item 8, WP 0023)

References

None

1. The BASIC items listed below may be cleaned using the following instructions.

Helmet Cover

Trousers

Front and Rear Vest Cover Halves

Cloth Carrier for Groin Plate

Upper and Lower arm protectors

Collar

- a. Remove Ballistic inserts from front and back vest cover halves and the cloth carrier for the groin plate.
- b. Remove as much dirt/mud/dust from BASIC material as possible using a brush.

CAUTION

Do not use chlorine bleach, yellow soap, cleaning fluids or solvents.

Do not launder or dry components of the BASIC in commercial or home type laundry equipment.

- c. Hand wash in warm water using mild soap or mild detergent.

CAUTION

Do Not dry in direct sunlight, direct heat, or near an open flame.

- d. Dry item in shade or indoors.
2. Chest Plate and Groin Plate

CAUTION

Never use a stiff bristle or wire brush.

- a. Remove loose dirt and lint from outer surface using a clean cloth or soft bristle brush.

CAUTION

Do not submerge armor plates in water.

- b. Heavy grease or oil stains may be pre-spotted with dry cleaning solvent and mild detergent and scrubbed with a soft brush.

-
- c. If needed, plates may be cleaned using a rag or brush dipped in a solution of mild detergent.
 - d. Wipe armor plate(s) with damp cloths until all soap or solvent is removed.

CAUTION

Do not dry in direct sunlight, direct heat, or near an open flame.

- e. Wipe plate(s) with dry cloth and allow to air dry.

3. Face Shield.

CAUTION

Washing face shield without first rinsing may scratch surface.

Do not use ammonia, alkaline cleaners, abrasive compounds or solvents.

- a. Rinse off any dirt/mud/dust for face shield using clean warm water.
- b. Hand wash item using soft cloth and mild soap or mild detergent solution.
- c. Rinse with clean warm water until all soap or detergent is removed.

CAUTION

Do not rub the polycarbonate face shield. Doing so may scratch the surface.

- d. Pat the polycarbonate shield with a dry soft cloth to pick up excess moisture, then allow to air dry.
4. Overboots.
- a. Brush off excess dirt with a soft brush.
 - b. Wash overboot with warm water.

CAUTION

Do Not dry in direct sunlight, direct heat, or near an open flame.

5. Air-dry overboot.

END OF TASK
END OF WORK PACKAGE

**OPERATOR MAINTENANCE
BODY ARMOR SET, INDIVIDUAL COUNTERMINE (BASIC)
GENERAL REPAIR INSTRUCTIONS**

For repairs not contained herein, turn in for repair.

Tears or cuts less than one inch may be temporarily repaired using tape, item 10, WP 0023. Tape should extend at least 1/2 inch beyond the ends of the tear or cut. The suit will be referred to higher maintenance after the mission is completed.

**END OF TASK
END OF WORK PACKAGE**

**OPERATOR MAINTENANCE
BODY ARMOR SET, INDIVIDUAL COUNTERMINE (BASIC)
REPLACING DAMAGED (FPS) PODS**

This work package provides instructions for replacing damaged pods on the FPS Spider Boot.



Figure 1. Changing Damaged Pod.

1. Unscrew the worn or damaged pod.
2. Remove the pod.
3. Push the replacement pod onto the leg.
4. Screw the pod onto the leg until completely secure.
5. Make sure the knob on the underside of the leg sits in the groove carved into top of the pod.

**END OF TASK
END OF WORK PACKAGE**

**OPERATOR MAINTENANCE
BODY ARMOR SET, INDIVIDUAL COUNTERMINE (BASIC)
RE-ASSEMBLY OF FPS**

This work package provides information to assist in properly re-assembling the FPS following component replacement.

Attaching the Legs to the Deflector Plate

1. Insert a 1.25-inch screw through the deflector plate and one leg assembly, with the head facing up.
2. Place a flat washer on the screw on the bottom side of the leg and tighten a nylon locknut onto the screw.
3. Put a vinyl cap over the end of the screw. Repeat for the other screws in that leg and again for the other leg.

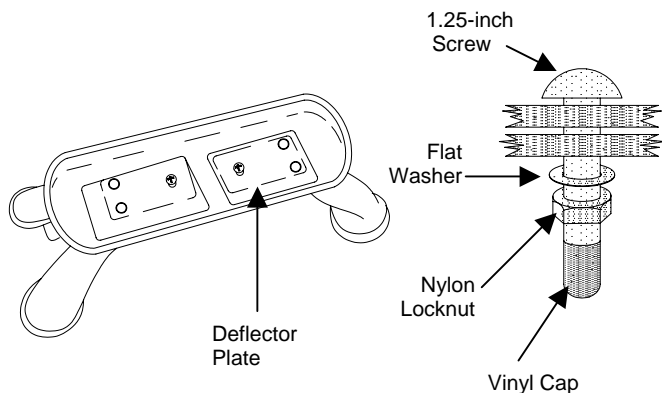


Figure 1. Attaching the Legs to the Deflector Plate.

END OF TASK

Replacing the T-Nuts in the Hinge Plate

1. Fold the hinge plate out so that you can see the bottom of the T-nuts.
2. Pry the T-nut out of the bottom of the hinge plate with a flat-blade screwdriver.
3. Press a new T-nut into the hole in the hinge plate, being sure that the flush side is facing the right way.

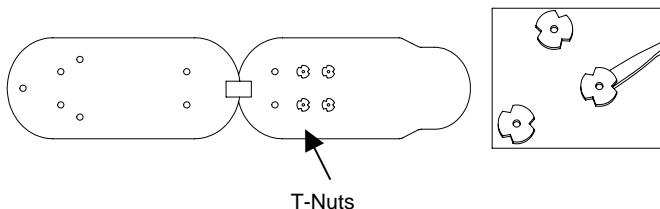


Figure 2. Replacing the T-Nuts in the Hinge Plate.

END OF TASK**Securing the Hinge Plate**

1. Insert a 1-inch screw through the hinge plate with the head facing up.
2. Place a flat washer on the screw on the bottom of the hinge plate and tighten a nylon locknut onto the screw. Repeat for the other screws in the hinge plate.

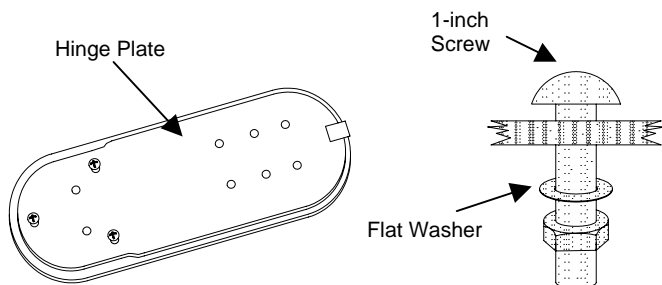


Figure 3. Securing the Hinge Plate.

END OF TASK

Attaching the Legs and Deflector to the Hinge Plate

1. Insert two 2.5-inch screws up through the hinge plate using the two holes near the screws holding the hinge plate on.
2. Add a nylon spacer to the end of the screws.
3. Insert two 2.25-inch screws up through the other two holes in the hinge plate and add nylon spacers to those screws.

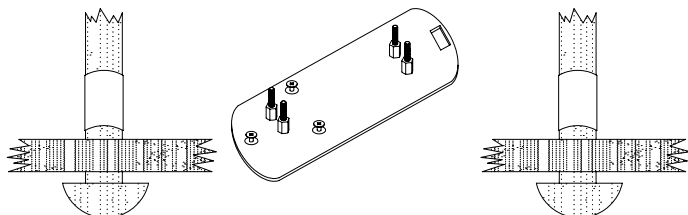


Figure 4. Attaching the Binding to the Hinge Plate.

4. Turn the leg/deflector plate assembly upside-down (legs facing up) and insert the assembly onto the four screws facing up out of the hinge plate.
5. Turn the leg/deflector assembly upside-down (legs facing up) and insert the assembly onto the four screws facing up out of the hinge plate.

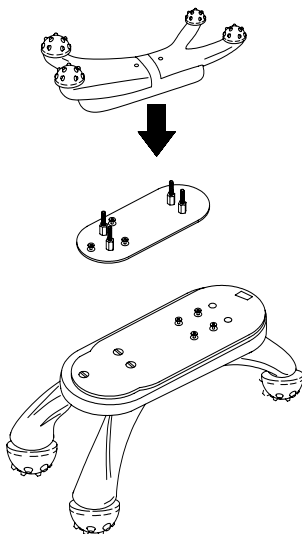


Figure 5. Inserting the Leg/Deflector Assembly Onto Hinge Plate.

6. Place a flat washer on each screw and tighten a nylon locknut onto each screw. Attach a vinyl cap to each of the screw ends.

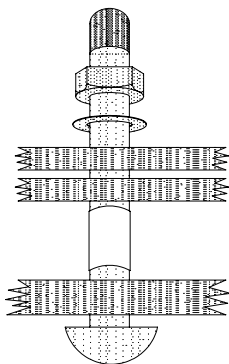


Figure 6. Placing Flat Washer and Attaching Vinyl Cap.

7. Place the binding on the hinge plate. Line up the holes in the binding with the T nuts in the hinge plates.

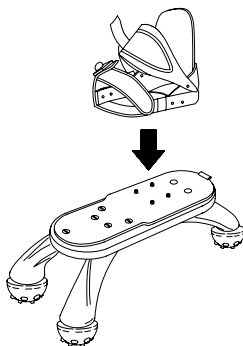


Figure 7. Attaching the Binding to the Hinge Plate.

END OF TASK
END OF WORK PACKAGE

**OPERATOR MAINTENANCE
BODY ARMOR SET, INDIVIDUAL COUNTERMINE (BASIC)
PREPARATION FOR STORAGE**

INITIAL SETUP:**Materials Required**

Cloth (item 1, WP 0023)

Sheet, plastic (item 11, WP 0023)

Clean all components (WP 0013) and secure all closures before storing.

CAUTION

Minimize folding or bunching of ballistic components. Repeated folding in the same location can increase the potential of abrading the ballistic components thus decreasing the item's service life.

The BASIC may be stored in a bag/container or Air Force Bag (refer to WP 0024). The following steps provide folding instructions and suggested packing of the Air Force bag.

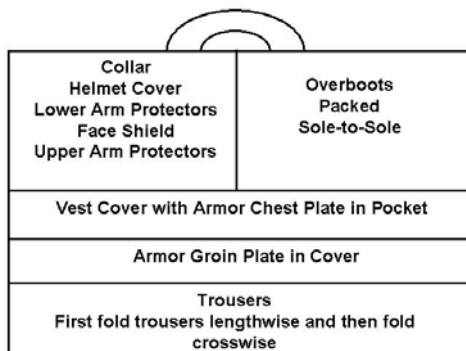


Figure 1. Carry Bag for BASIC Components.

Folding Instructions:**Trousers – Layer 1**

1. Fold lengthwise along crotch seam.

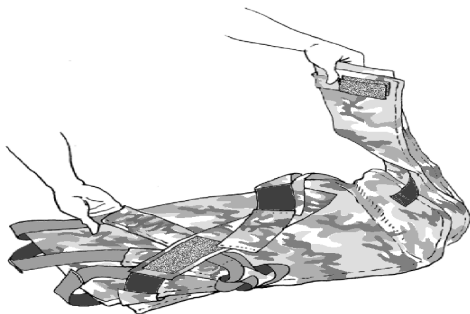


Figure 2. Folding Trousers.

2. Then fold crosswise along knee.
3. Place in bottom of storage bag, or container.

END OF TASK**Armor Groin Plate – Layer 2**

1. Place armor groin plate in carrier and secure closure.

NOTE

Closing hook and loop fasteners will eliminate snagging other materials.

2. Engage groin plate carrier elastic webbing, hook-fastening tape to groin carrier loop fastening tape.



Front View

Rear View

Figure 3. Groin Plate.

3. Place armor groin plate in carrier on folded trouser

END OF TASK

Vest Cover and Armor Chest Plate – Layer 3

1. Place armor chest plate in pocket and secure closure.
2. Check that all other vest cover closures are secure.
3. Lay vest cover with armor plate flat or with slightly rolled lengthwise edges on top of the groin plate.
4. Disconnect upper arm protectors from lower arm protectors.

NOTE

The ballistic inserts will cushion and protect the face shield visor.

5. Place (insert) face shield visor section between left and right upper arm protectors and place into one end of bag.
6. Place upper arm protectors and face shield, next to the PASGT helmet.
7. Place lower arm protectors (slightly rolled from engaged closures), helmet cover (folds naturally along lengthwise of center crown), and collar (folds naturally lengthwise along center front and back) on top of the upper arm protectors and face shield.

NOTE

Positioning the overboots sole-to-sole will assist in concentrating any attached dirt and debris to one area

8. Position overboots to have sole-to-sole contact. Place overboots beside the upper arm protectors.
9. Close the bag.
10. If not using Air Force bag, cover components with cloth or plastic sheet.

END OF TASK

END OF WORK PACKAGE

OPERATOR MAINTENANCE
BODY ARMOR SET, INDIVIDUAL COUNTERMINE (BASIC)
PREPARATION FOR FPS STORAGE AND TRANSPORT

This work package provides instructions for preparing FPS for storage and movement.

1. Fold down the ankle pieces.
2. Attach the straps over the ankle pieces to keep them in place.

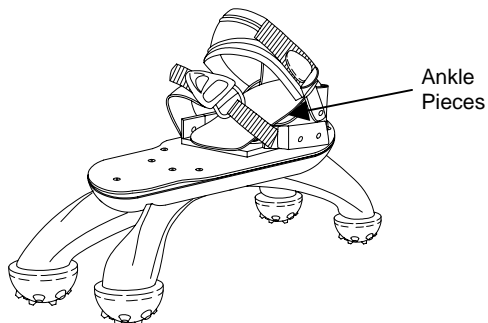


Figure 1. Ankle Pieces (Folded Down).

3. Position the boots so that the legs interlock in a compact configuration.

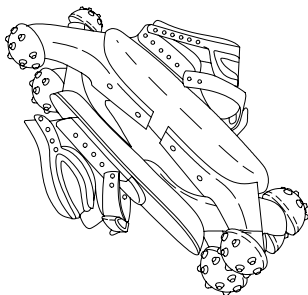


Figure 2. FPS Compact Configuration.

4. Place the interlocking boots on the carry strap.

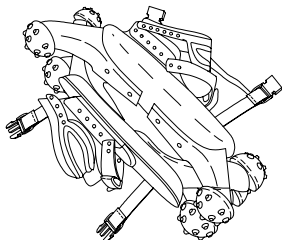


Figure 3. Interlocking Boots with Travel Strap.

5. Wrap the carry strap loops around the legs and fasten the buckles.

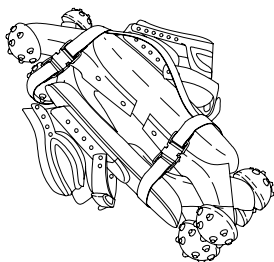


Figure 4. Carry Strap Wrapped Around FPS.

6. Store the FPS in a dry location.

END OF TASK

Using the Carry Strap for Storage and Movement

1. Fold down the ankle supports.
2. Attach the straps over the ankle pieces to keep them in place
3. Position the boots so that the legs interlock in a compact configuration.
4. Wrap the carry strap loops around the legs and fasten the buckles.
5. Store the FPS in a dry location.

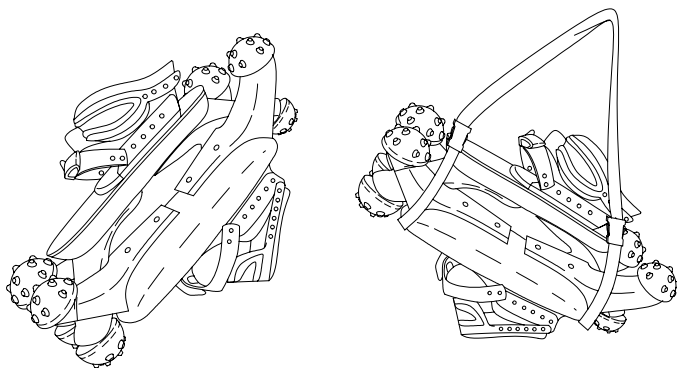


Figure 5. Using the Carry Strap for Storage and Movement.

END OF TASK
END OF WORK PACKAGE

CHAPTER 4
SUPPORTING INFORMATION
FOR
BODY ARMOR SET, INDIVIDUAL COUNTERMINE
(BASIC)

**OPERATOR MAINTENANCE
BODY ARMOR SET, INDIVIDUAL COUNTERMINE (BASIC)
REFERENCES**

This work package lists all field manuals, forms, technical manuals, and miscellaneous publications referenced in this manual.

FIELD MANUALS

FM 20-32	Mine/Countermine Operations
FM 3-5	NBC Decontamination
FM 4-25.11	First Aid for Soldiers

FORMS

DA Form 2028	Recommended changes to Publications and Blank Forms
SF 368	Product Quality Deficiency Report

TECHNICAL MANUALS

TM 10-8400-203-23	Unit and Direct Support Maintenance Manual for General Repair Procedures for Individual Equipment
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MISCELLANEOUS PUBS

DA PAM 750-8	Functional User's Manual for the Army Maintenance Management System (TAMMS)
MIL-B-41816	Boots, Cold Weather, Insulated, Rubber (Wet-Cold: Dry-Extreme Cold)
MIL-B-44426	Boots, Intermediate Cold/Wet
MIL-O-43995	Overshoes, Men's and Women's, Boot, Combat

END OF WORK PACKAGE

**OPERATOR MAINTENANCE
BODY ARMOR SET, INDIVIDUAL COUNTERMINE (BASIC)
COMPONENTS OF END ITEM AND BASIC ISSUE ITEMS LISTS**

INTRODUCTION

Scope

This work package lists COEI and BII for the Body Armor Set, Individual Countermine (BASIC) to help you inventory items for safe and efficient operation of the equipment.

General

The COEI and BII information is divided into the following lists:

Components of End Item (COEI). This list is for information purposes only and is not authority to requisition replacements. These items are part of the Body Armor Set, Individual Countermine (BASIC). As part of the end item, these items must be with the end item whenever it is issued or transferred between property accounts. Items of COEI are removed and separately packaged for transportation or shipment only when necessary. Illustrations are furnished to help you find and identify the items.

Basic Issue Items (BII). There are no Basic Issue Items for the Body Armor Set, Individual Countermine (BASIC).

Explanation of Columns in the COEI List

Column (1) — National Stock Number (NSN). Identifies the stock number of the item to be used for requisitioning purposes.

Column (2) — Description, CAGEC, and Part Number. Identifies the Federal item name (in all capital letters) followed by a minimum description when needed. The stowage location of COEI and BII is also included in this column. The last line below the description is the CAGEC (commercial and Government entity code) (in parentheses) and the part number.

Column (3) — Unit of Issue (U/I). Indicates the count of the item as issued per the National Stock Number shown in column (2).

Column (4) — Qty Rqr. Indicates the quantity required.

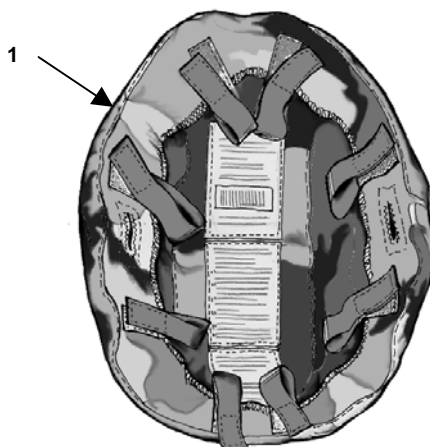


Table 1. Components of End Item List.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER (NSN)	(3) DESCRIPTION, PART NUMBER/ (CAGEC)	(4) USABLE ON CODE	(5) U/I	(6) QTY RQR
1	8470-01-472-1904	Small Helmet Cover, Ballistic 4P613, CY00- 002 SMALL		EA	1
1	8470-01-472-1905	Medium Helmet Cover, Ballistic 4P613, CY00- 002 MEDIUM		EA	1
1	8470-01-472-1906	Large Helmet Cover, Ballistic 4P613, CY00- 002 LARGE		EA	1

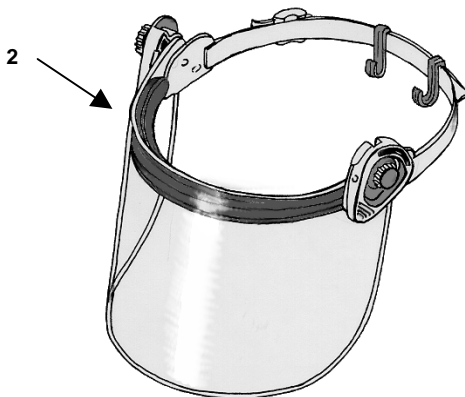


Table 1. Components of End Item List – continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER (NSN)	(3) DESCRIPTION, PART NUMBER/ (CAGEC)	(4) USABLE ON CODE	(5) U/I	(6) QTY RQR
2	8465-01-467-0721	Face Shield 01365, PD/C0- 99-14		EA	1

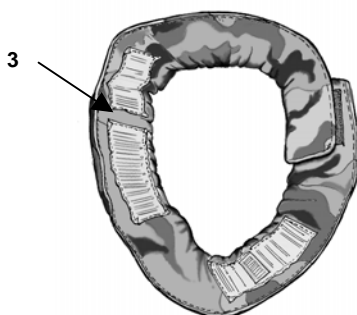


Table 1. Components of End Item List – continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER (NSN)	(3) DESCRIPTION, PART NUMBER/ (CAGEC)	(4) USABLE ON CODE	(5) U/I	(6) QTY RQR
3	8470-01-472-3445	Small Ballistic Collar 4P613, C9Y00- 011 SMALL		EA	1
3	8470-01-472-3448	Medium Ballistic Collar 4P613, C9Y00- 011 MEDIUM		EA	1
3	8470-01-472-3449	Large Ballistic Collar 4P613, C9Y00- 011 LARGE		EA	1

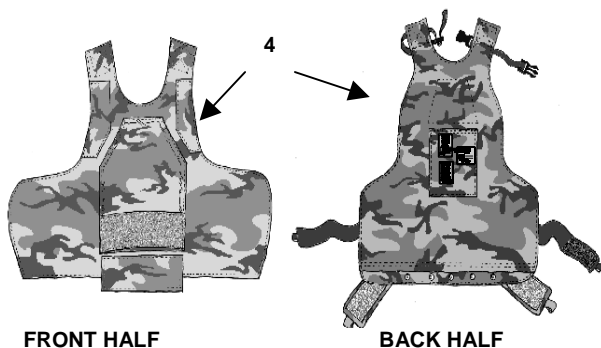


Table 1. Components of End Item List – continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER (NSN)	(3) DESCRIPTION, PART NUMBER/ (CAGEC)	(4) USABLE ON CODE	(5) U/I	(6) QTY RQR
4	8470-01-472-3593	Small Ballistic Vest Cover including Kevlar insert in pack piece of vest cover 4P613, CY00-005		EA	1
4	8470-01-472-3595	Medium Ballistic Vest Cover including Kevlar insert in pack piece of vest cover 4P613, CY00-005		EA	1
4	8470-01-472-3596	Large Ballistic Vest Cover including Kevlar insert in pack piece of vest cover 4P613, CY00-005		EA	1

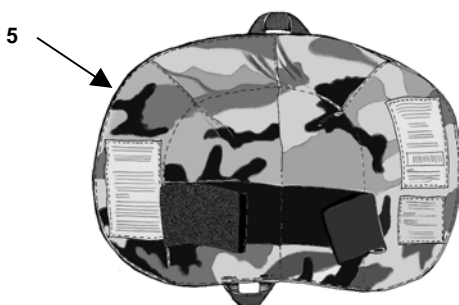


Table 1. Components of End Item List – continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER (NSN)	(3) DESCRIPTION, PART NUMBER/ (CAGEC)	(4) USABLE ON CODE	(5) U/I	(6) QTY RQR
5	8470-01-472-3152	Small Ballistic Arm Protector, Upper Right Arm 4P613, CY00-008		EA	1
5	8470-01-472-3153	Medium Ballistic Arm Protector, Upper Right Arm 4P613, CY00-008		EA	1
5	8470-01-472-3154	Large Ballistic Arm Protector, Upper Right Arm 4P613, CY00-008		EA	1
5	8470-01-472-3247	Small Ballistic Arm Protector, Upper Left Arm 4P613, CY00-007		EA	1
5	8470-01-472-3249	Medium Ballistic Arm Protector, Upper Left Arm 4P613, CY00-007		EA	1
5	8470-01-472-3250	Large Ballistic Arm Protector, Upper Left Arm 4P613, CY00-007		EA	1

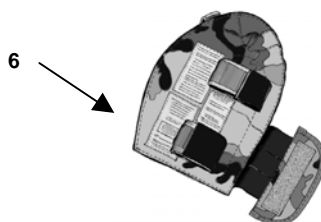


Table 1. Components of End Item List – continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER (NSN)	(3) DESCRIPTION, PART NUMBER/ (CAGEC)	(4) USABLE ON CODE	(5) U/I	(6) QTY RQR
6	8470-01-472-3457	Small Ballistic Arm Protector, Lower Right Arm 4P613, CY00- 010 SMALL		EA	1
6	8470-01-472-3458	Medium Ballistic Arm Protector, Lower Right Arm 4P613, CY00- 010 MEDIUM		EA	1
6	8470-01-472-3461	Large Ballistic Arm Protector, Lower Right Arm 4P613, CY00- 010 LARGE		EA	1
6	8470-01-472-3451	Small Ballistic Arm Protector, Lower Left Arm 4P613, CY00- 009 SMALL		EA	1
6	8470-01-472-3455	Medium Ballistic Arm Protector, Lower Left Arm 4P613, CY00- 009 MEDIUM		EA	1
6	8470-01-472-3456	Large Ballistic Arm Protector, Lower Left Arm 4P613, CY00- 009 LARGE		EA	1



Table 1. Components of End Item List – continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER (NSN)	(3) DESCRIPTION, PART NUMBER/ (CAGEC)	(4) USABLE ON CODE	(5) U/I	(6) QTY RQR
7	8470-01-478-3652	Body Armor Chest Plate 4P613, CY00- 040		EA	1



Table 1. Components of End Item List – continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER (NSN)	(3) DESCRIPTION, PART NUMBER/ (CAGEC)	(4) USABLE ON CODE	(5) U/I	(6) QTY RQR
8	8470-01-472-3538	Armor Groin Plate 4P613, CY00-12		EA	1

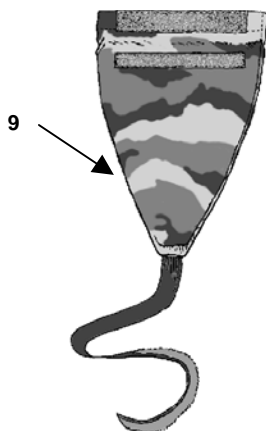


Table 1. Components of End Item List – continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER (NSN)	(3) DESCRIPTION, PART NUMBER/ (CAGEC)	(4) USABLE ON CODE	(5) U/I	(6) QTY RQR
9	8470-01-472-3536	Armor Groin Plate Carrier 4P613, CY00- 013		EA	1

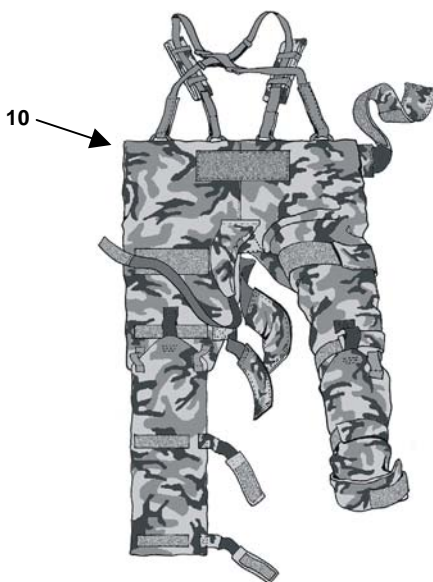


Table 1. Components of End Item List – continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER (NSN)	(3) DESCRIPTION, PART NUMBER/ (CAGEC)	(4) USABLE ON CODE	(5) U/I	(6) QTY RQR
10	8470-01-472-3421	Small Trousers, Anti-Frag 4P613, CY00- 004 SMALL		PR	1
10	8470-01-472-3426	Medium Trousers, Anti- Frag 4P613, CY00- 004 MEDIUM		PR	1
10	8470-01-472-3435	Large Trousers, Anti-Frag 4P613, CY00- 004 LARGE		PR	1



Table 1. Components of End Item List – continued.

(1) ILLUS NUMBER	(2) NATIONAL STOCK NUMBER (NSN)	(3) DESCRIPTION, PART NUMBER/ (CAGEC)	(4) USABLE ON CODE	(5) U/I	(6) QTY RQR
11	8470-01-472-4255	Size 5 - Overboots, Ballistic 4P613, CY00-003		PR	1
11	8470-01-472-4257	Size 7 - Overboots, Ballistic 4P613, CY00-003		PR	1
11	8470-01-472-4259	Size 9 - Overboots, Ballistic 4P613, CY00-003		PR	1
11	8470-01-472-4263	Size 11 - Overboots, Ballistic 4P613, CY00-003		PR	1
11	8470-01-472-4264	Size 12 - Overboots, Ballistic 4P613, CY00-003		PR	1

END OF WORK PACKAGE

**OPERATOR MAINTENANCE
BODY ARMOR SET, INDIVIDUAL COUNTERMINE (BASIC)
ADDITIONAL AUTHORIZATION LIST (AAL)**

INTRODUCTION

Scope

This work package lists additional items you are authorized for the support of the BASIC.

General

This list identifies items that do not have to accompany the BASIC and that do not have to be turned in with it. These items are all authorized to you by CTA, MTOE, TDA, or JTA.

Explanation of Columns in the AAL

Column (1) — National Stock Number (NSN). Identifies the stock number of the item to be used for requisitioning purposes.

Column (2) — Description, Part Number/CAGEC. Identifies the Federal item name (in all capital letters) followed by a minimum description when needed. The last line below the description is part number and the Commercial and Government Entity Code (CAGEC) (in parentheses).

Column (3) — Usable On Code. When applicable, gives you a code of the item you need is not the same for different models of equipment. These codes are identified below:

<u>Code</u>	<u>Used on</u>
N/A	

Column (4) — Unit of Issue (U/I). Indicates the physical measurement or count of the item as issued per the National Stock Number shown in column (1).

Column (5) — Qty Recm. Indicates the quantity recommended.

Table 1. Additional Authorization List.

(1) NATIONAL STOCK NUMBER (NSN)	(2) DESCRIPTION, PART NUMBER/ (CAGEC)	(3) USABLE ON CODE	(4) U/I	(5) QTY RECM
8460-00-606-8366	Foot Protection System—Spider Boot		pr	1
	Air Force Carry Bag, (Kit Bag, Flyers)		C	1

END OF WORK PACKAGE

**OPERATOR MAINTENANCE
BODY ARMOR SET, INDIVIDUAL COUNTERMINE (BASIC)
SPARE PARTS LIST**

The following parts for the FPS are available for replacement:

Item	Description	Part Number
1	0.5 Inch Machine Screw	500-517
2	Binding	515-057
3	2.5 Inch Machine Screw	500-210
4	1 Inch Machine Screw	500-211
5	Hinge Plate Assembly	MA002057
6	3-Prong T-Nut	500-206
7	2.25 Inch Machine Screw	500-217
8	Flat Washer	500-204
9	Nylon Locknut	500-203
10	1.25 Inch Machine Screw	500-212
11	Nylon Round Spacer	500-207
12	Deflector Plate	MD002051
13	Legs	MD002055
14	Rubber Pod	MD000947
15	Vinyl Cap	500-222
16	Carry Strap	PL000183
17	Sand Pond	MD00299

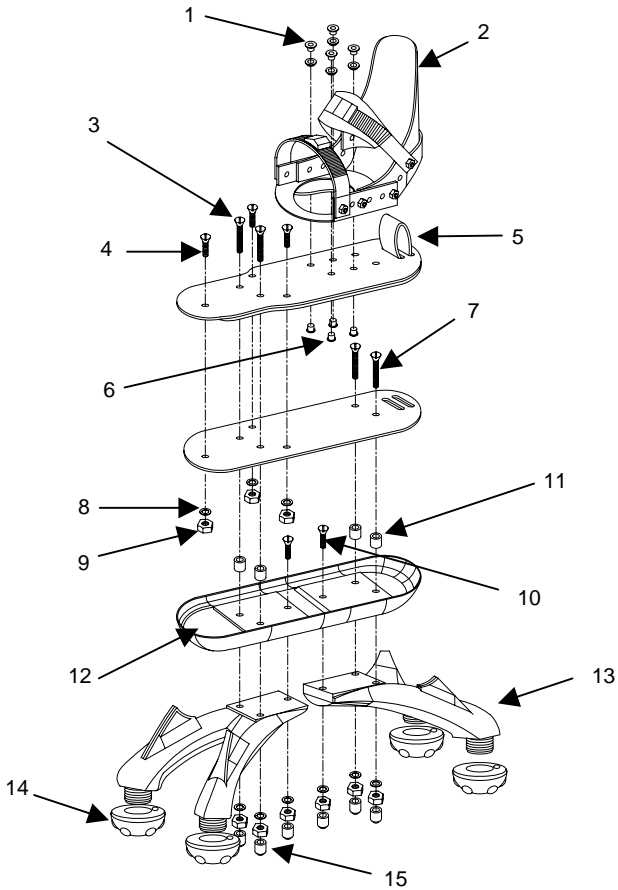


Figure 1. Spare Parts.

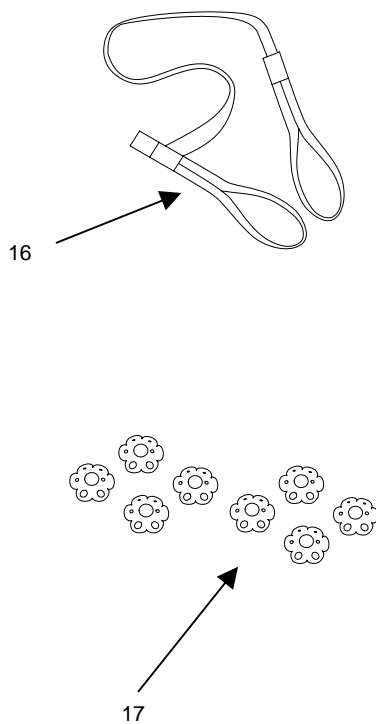


Figure 1. Spare Parts - continued.

**OPERATOR MAINTENANCE
BODY ARMOR SET, INDIVIDUAL COUNTERMINE (BASIC)
EXPENDABLE AND DURABLE ITEMS LIST**

INTRODUCTION

Scope

This work package lists expendable and durable items that you will need to operate and maintain the Body Armor Set, Individual Countermine (BASIC). This list is for information only and is not authority to requisition the listed items. These items are authorized to you by CTA 50-970, Expendable/Durable Items (Except Medical, Class V Repair Parts, and Heraldic Items), or CTA 8-100, Army Medical Department Expendable/Durable Items.

Explanation of Columns in the Expendable/Durable Items List

Column (1) — Item Number. This number is assigned to the entry in the list and is referenced in the narrative instructions to identify the item (e.g., Use brake fluid (item 5, WP 0098).

Column (2) — Level. This column identifies the lowest level of maintenance that requires the listed item (C = Operator/Crew).

Column (3) — National Stock Number (NSN). This is the NSN assigned to the item, which you can use to requisition it.

Column (4) — Item Name, Description, Commercial and Government Entity Code (CAGEC), and Part Number (P/N). This column provides the other information you need to identify the item. The last line below the description is the part number and the Commercial and Government Entity Code (CAGEC) (in parentheses).

Column (5) — Unit of Measure (U/M). This code shows the physical measurement or count of an item, such as gallon, dozen, gross, etc.

Table 1. Expendable and Durable Items List.

(1) ITEM NO.	(2) LEVEL	(3) NATIONAL STOCK NUMBER (NSN)	(4) ITEM NAME, DESCRIPTION, PART NUMBER/ (CAGEC)	(5) U/I
1	C		Handi Cloth (Fuller Brush Company, Phone: 316-793-4541), W97266/(80572)	ea
2	C		Stain Brush (Fuller Brush Company), W97125/(80572)	ea
3	C		Shoe Clean Brush, (Fuller Brush Company), W97204/(80572)	ea
4	C		Brush, Handi Scrubber, Fuller Brush Company, W97126/(80572)	ea
5	C		Rag	ea
6	C	7390-00-252-6797	Detergent, type II, (053H7)	ea
7	C	7930-00-291-8321	Sour Laundry, sodium fluorosilicate, type I, (Gurtler Chemicals, phone 708-331-2550, (0CA58)	ea

Table 1. Expendable and Durable Items List - continued

(1) ITEM NO.	(2) LEVEL	(3) NATIONAL STOCK NUMBER (NSN)	(4) ITEM NAME, DESCRIPTION, PART NUMBER/ (CAGEC)	(5) U/I
8	C		Solvent, dry cleaning	ea
9	C		Soap, mild	ea
10	C		Tape measure (Reliable Sewing Machine Company, phone 781-341-3991.	ea
11	C		Sheet, plastic	ea

END OF WORK PACKAGE

**OPERATOR MAINTENANCE
BODY ARMOR SET, INDIVIDUAL COUNTERMINE (BASIC)
OPERATOR RECORD OF HIT**

**OPERATOR
RECORD OF HIT**

Name: _____

Rank: _____ Serial #: _____

Unit: _____

BASIC Size: _____ Date of Issue: __/__/__

Duty Being Performed When Hit: _____

Hit Caused by (circle): Mine (circle type: Blast

Fragmentation) Grenade Booby Trap Mortar

Artillery Other (describe): _____

Date of Hit: __/__/__

Estimated range from point of detonation: _____

Location of Hit(s) on BASIC System: _____

Continued to Perform Mission (circle one)? Yes No

Was Personal Injury Sustained (circle one)? Yes No

Description of Injury: _____

**OPERATOR
RECORD OF HIT – continued**

Mail Record of Hit to postal address or responses to electronic mail address:

Postal Address:

Commander
U.S. Army Soldier and Biological Chemical
Command
ATTN: AMSSB-RIP-RSQ(N)
Kansas Street
Natick, MA 01760

END OF WORK PACKAGE

These are the instructions for sending an electronic 2028

The following format must be used if submitting an electronic 2028. The subject line must be exactly the same and all fields must be included; however only the following fields are mandatory: 1, 3, 4, 5, 6, 7, 8, 9, 10, 13, 15, 16, 17, and 27.

From: "Whoever" <whoever@avma27.army.mil>

To: amssbriml@natick.army.mil

Subject: DA Form 2028

1. **From:** Joe Smith

2. **Unit:** home

3. **Address:** 4300 Park

4. **City:** Hometown

5. **St:** MO

6. **Zip:** 77777

7. **Date Sent:** 19--OCT--93

8. **Pub no:** 55--2840--229--23

9. **Pub Title:** TM

10. **Publication Date:** 04--JUL--85

11. **Change Number:** 7

12. **Submitter Rank:** MSG

13. **Submitter FName:** Joe

14. **Submitter MName:** T

15. **Submitter LName:** Smith

16. **Submitter Phone:** 123--123--1234

17. **Problem:** 1

18. **Page:** 2

19. **Paragraph:** 3

20. **Line:** 4

21. **NSN:** 5

22. **Reference:** 6

23. **Figure:** 7

24. **Table:** 8

25. **Item:** 9

26. **Total:** 123

27. **Text:**

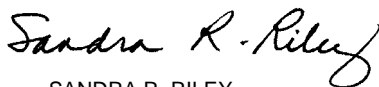
This is the text for the problem below line 27.

TM 10-8470-203-10

By Order of the Secretary of the Army:

PETER J. SHOOMAKER
General, United States Army
Chief of Staff

Official:

A handwritten signature in black ink that reads "Sandra R. Riley". The signature is written in a cursive style with a large, stylized 'S' and 'R'.

SANDRA R. RILEY
Administrative Assistant to the
Secretary of the Army
0527701

Distribution: To be distributed in accordance with initial distribution number (IDN) 256697 requirements for TM 10-8470-203-10.

TM 10-8470-203-10

PIN: 079342-000

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